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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/817,141	03/27/2001	Aya Imada	35.G2764	7091	
5514	7590 08/27/2003	·			
FITZPATRICK CELLA HARPER & SCINTO			EXAMINER		
30 ROCKEFE NEW YORK,	ELLER PLAZA NY 10112		DUVERNE, JEAN F		
			ART UNIT	PAPER NUMBER	
			2839		
			DATE MAII ED: 09/27/2002	,	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	n No.	Applicant(s)	E1
		09/817,141	l	IMADA, AYA	
Office Action Summary		Examiner		Art Unit	
		Jean F. Du	verne	2839	
Period	The MAILING DATE of this communication app for Reply	pears on the	cover sheet with	the correspondence addre)SS
	SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO	EXPIRE 3 MC	NTH(S) FROM	
TH - 8 a - If - If - F - A	E MAILING DATE OF THIS COMMUNICATION. xtensions of time may be available under the provisions of 37 CFR 1.1 fter SIX (6) MONTHS from the mailing date of this communication. the period for reply specified above is less than thirty (30) days, a repl NO period for reply is specified above, the maximum statutory period to period for reply within the set or extended period for reply will, by statute may reply received by the Office later than three months after the mailing armed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no even ly within the statut will apply and will e, cause the applic	ory minimum of thirty expire SIX (6) MONT eation to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this comm NDONED (35 U.S.C. § 133).	nunication.
Status	· · · · · · · · · · · · · · · · · · ·			~	
1)[Responsive to communication(s) filed on <u>06</u> .	August 2003			
2a)[☐ This action is FINAL . 2b)⊠ Th	his action is r	non-final.		
3)[closed in accordance with the practice under				nerits is
•	sition of Claims	_			
4)[2	Claim(s) <u>1-34</u> is/are pending in the application		-!		
5 \[4a) Of the above claim(s) is/are withdra	iwn from con	sideration.	•	
5) <u>L</u>	- . () 				
	Claim(s) <u>1-34</u> is/are rejected.				
7)L					
](8 Annlic	☐ Claim(s) are subject to restriction and/o ation Papers	or election re	quirement.		
	☐ The specification is objected to by the Examine	er.			
,	The drawing(s) filed on is/are: a)□ acce		biected to by th	e Examiner.	
, _	Applicant may not request that any objection to the				
11)[The proposed drawing correction filed on			•	
·	If approved, corrected drawings are required in re				
12)[The oath or declaration is objected to by the Ex	xaminer.	, ,		
Priorit	y under 35 U.S.C. §§ 119 and 120				
13)[Acknowledgment is made of a claim for foreig	n priority und	ler 35 U.S.C. §	119(a)-(d) or (f).	
	a)⊠ All b)□ Some * c)□ None of:				
	1.⊠ Certified copies of the priority document	ts have been	received.		
	2. Certified copies of the priority document	ts have been	received in Ap	plication No	
	3. Copies of the certified copies of the prio application from the International Bu	ureau (PCT F	Rule 17.2(a)).		age
	* See the attached detailed Office action for a list		•		
14)	Acknowledgment is made of a claim for domest				oplication).
15)[a) ☐ The translation of the foreign language pro ☐ Acknowledgment is made of a claim for domest				
Attachn —	• •				
2) 🔲 N	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-948) formation Disclosure Statement(s) (PTO-1449) Paper No(s) _			ummary (PTO-413) Paper No(s). formal Patent Application (PTO-1	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-34 rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshinaga et al (US patent 4,989,943) in view of Japan patent application (61-59303).

For claims 1-9, Yoshinaga's device discloses a plastic fiber (10) including a core and a cladding at 104; a lens (12) for controlling the light rays having a spherical light condensing lens. The lens is being integrated with the plastic optical fiber by heating and pressing the lens at high temperature (heating) and the use adhesive material with bonding features. The lens is formed with glass. The optical fiber with the outer sleeve is smaller than the lens (see fig. 20. However, Yoshinaga's device fails to explicitly disclose the glass material that the lens is made of and the lens being at least partially embedded in the end face of the plastic optical fiber. Japan Patent application (61-59303) discloses the lens being at least partially embedded in the end face of the plastic optical fiber. It would have been obvious at the time the invention was made to one having ordinary skill in the art to use the lens with thermally-softening temperature higher than a thermally softening temperature than the optical core fiber, since it has been held to within the general skill of a worker in the art to select a known material on

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the basis of its suitability for the intended use as a matter to meet design requirement. In re Leshin, 125 USPQ 416. It would have been obvious at the time the invention was made to one having ordinary skill in the art to use the lens with thermally-softening temperature higher than a thermally softening temperature in order to response to the environmental needs. It would also have been obvious at the time the invention was made to one having ordinary skill in the art to have the lens at least partially embedded in the end face of the plastic optical fiber to control the light projection in the fiber.

For claims 16-28, Yoshinaga's and Japan patent application devices disclose the aforementioned limitations including the device (22) that is used as a substrate to hold the lens and the optical fiber.

For claims 10-15 and 29-34, Yoshinaga's and Japan patent application devices disclose the aforementioned limitations except for the method of fabricating an optical fiber with lens. The method of forming or fabricating the optical fiber is an obvious variation because the limitations recited in the apparatus claims are identical to the method claims.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean F. Duverne whose telephone number is (703) 305-0297. The examiner can normally be reached on 9:30-8:00, Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (703) 308-2710. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JFD 8/11/2003

Jean F. Dwerne
Primary Examiner
Art Unit 2839